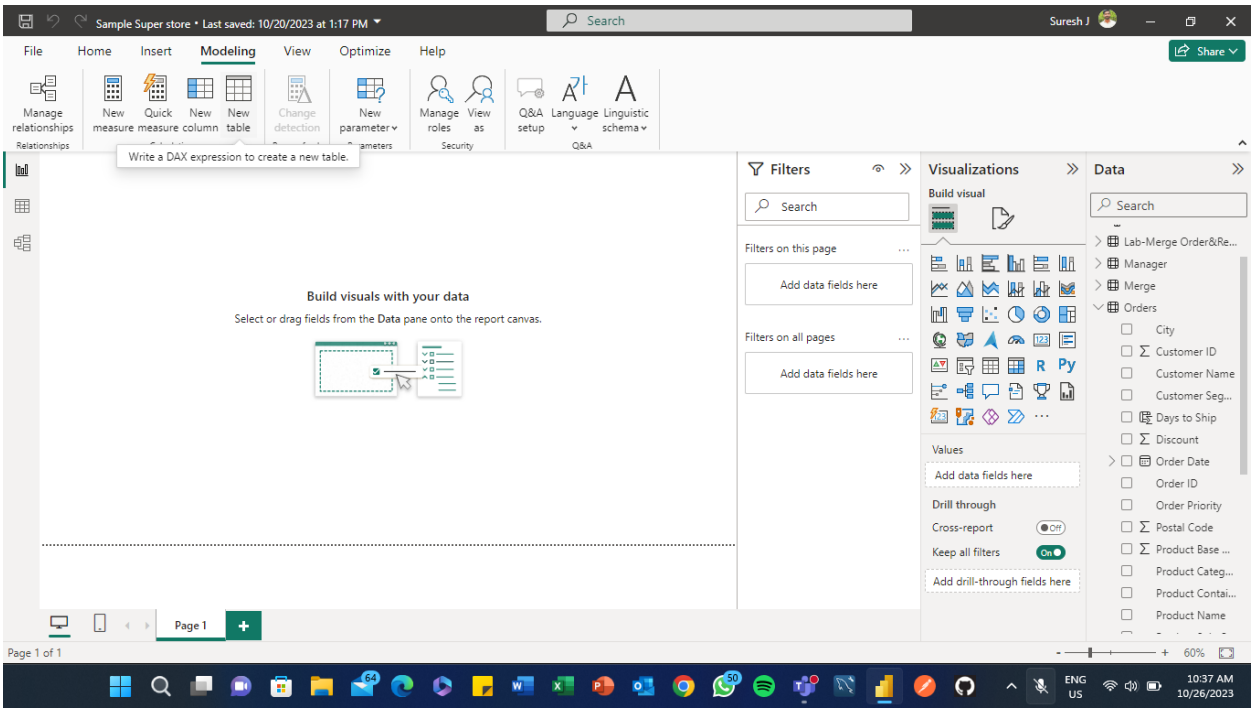
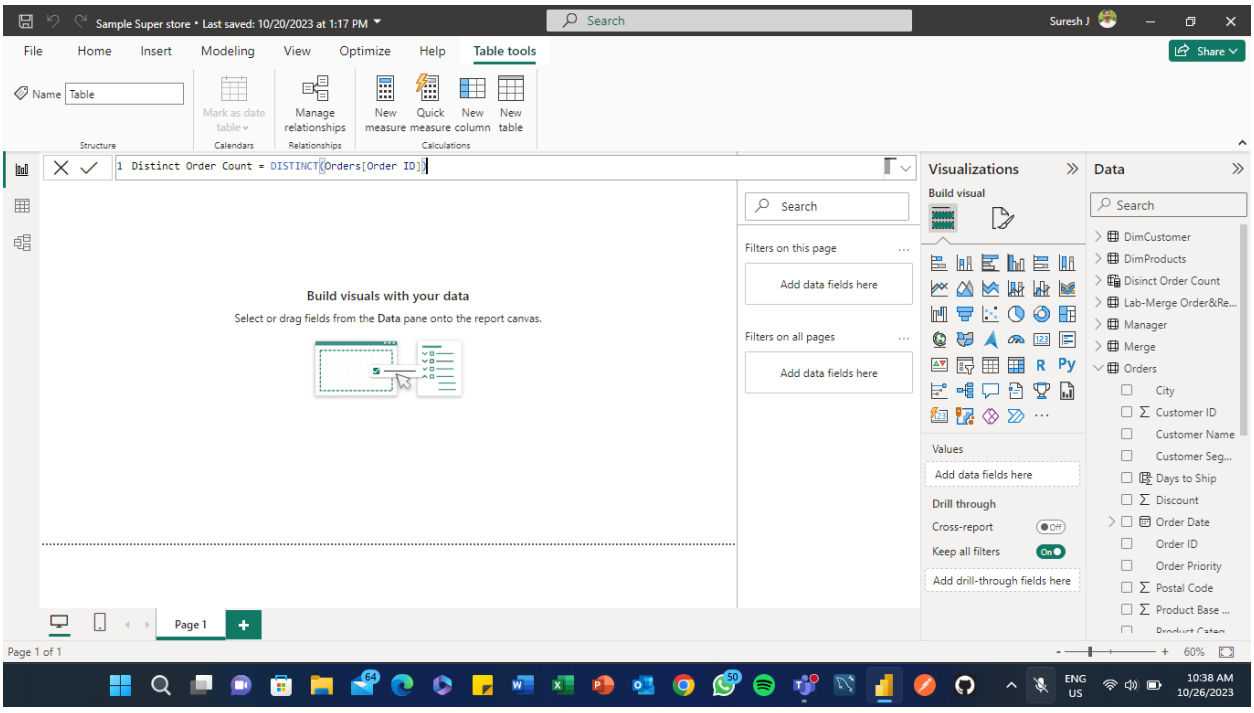
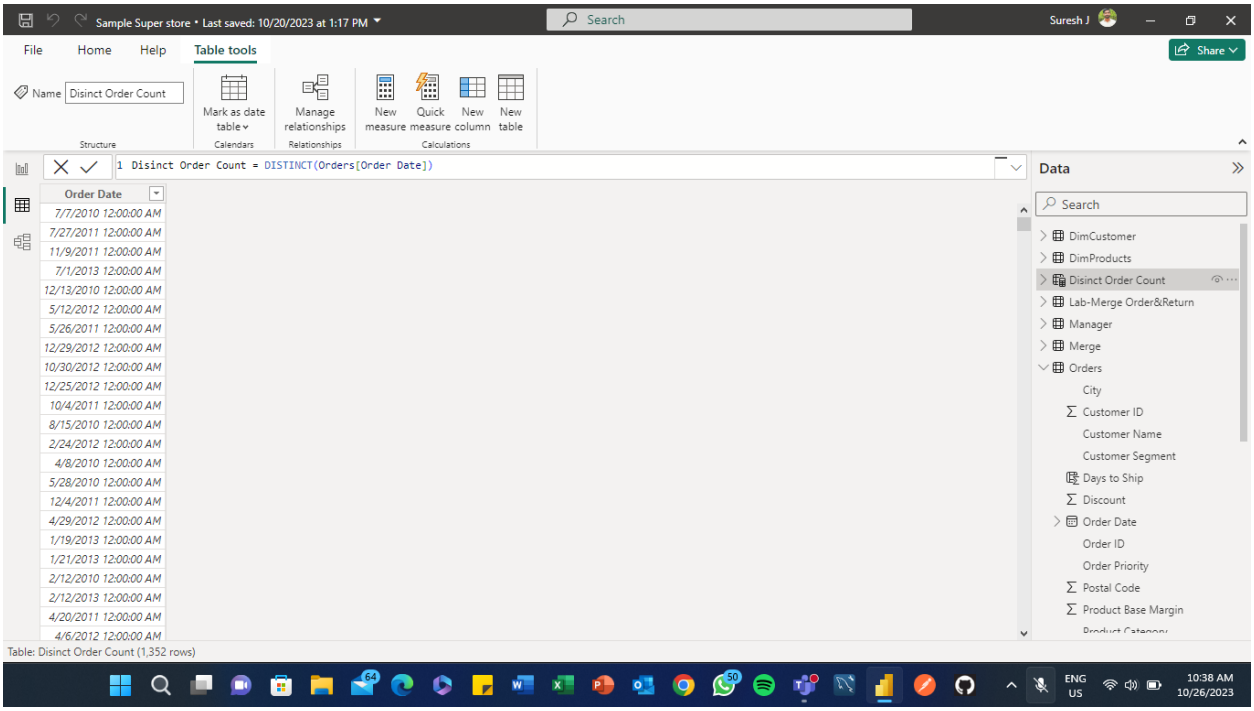
# SURESH
# Power BI Session
# Module 5

# Creating New Table

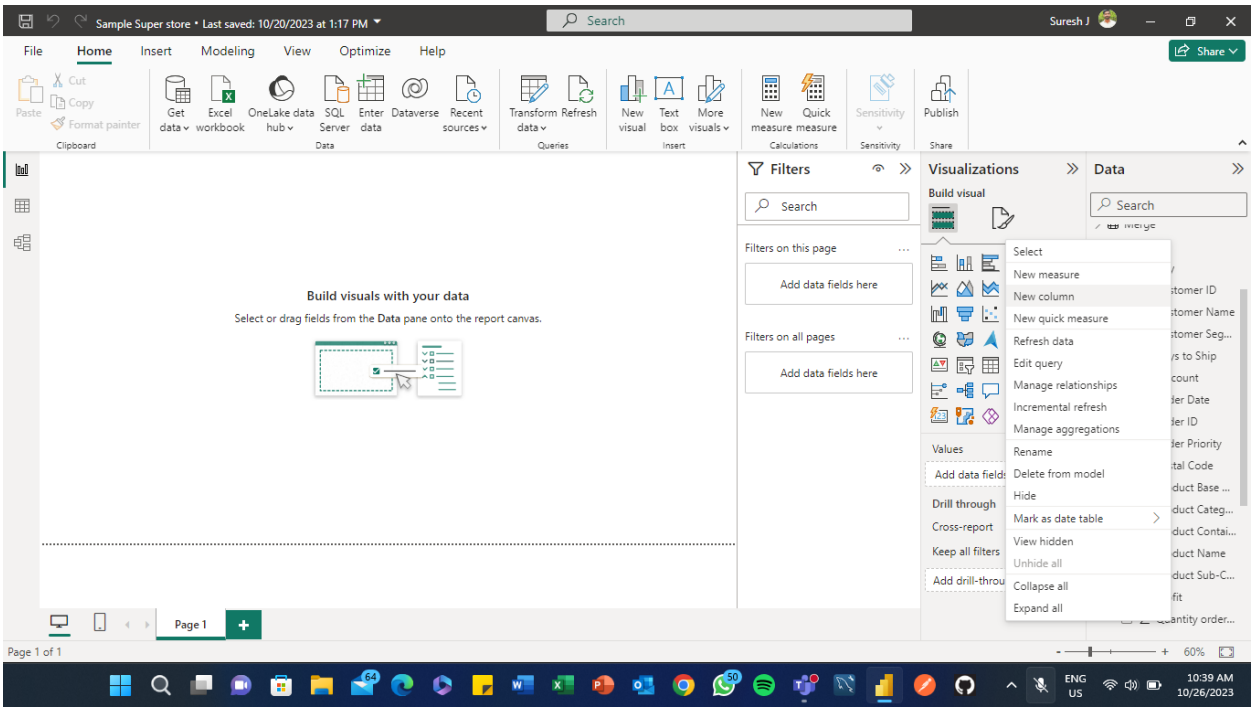



# Using Distinct Function

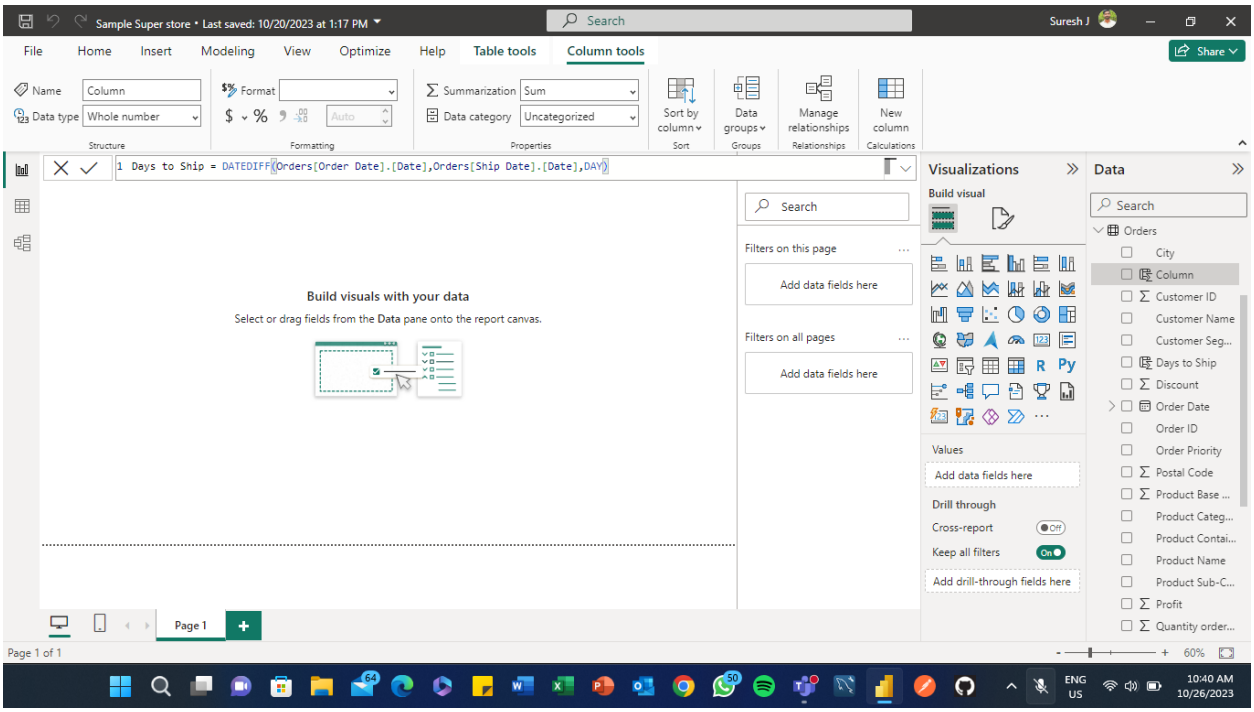


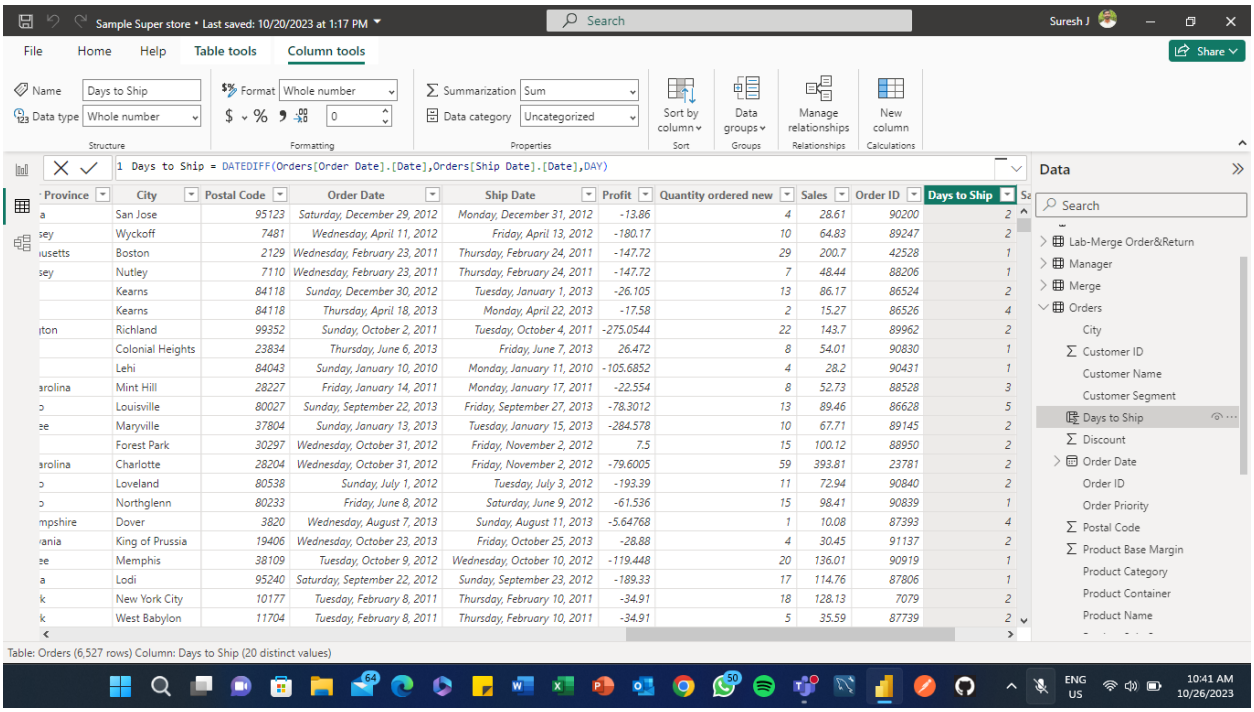



# Adding New Column

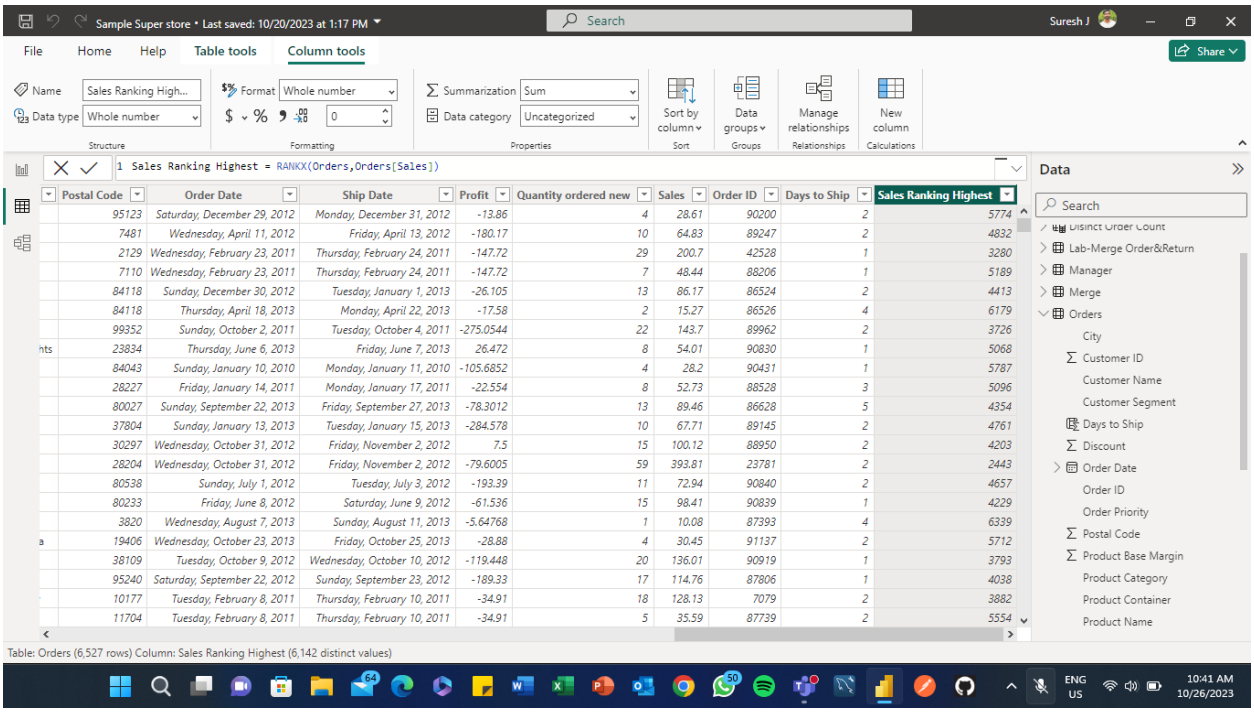


# Using Date IF Function



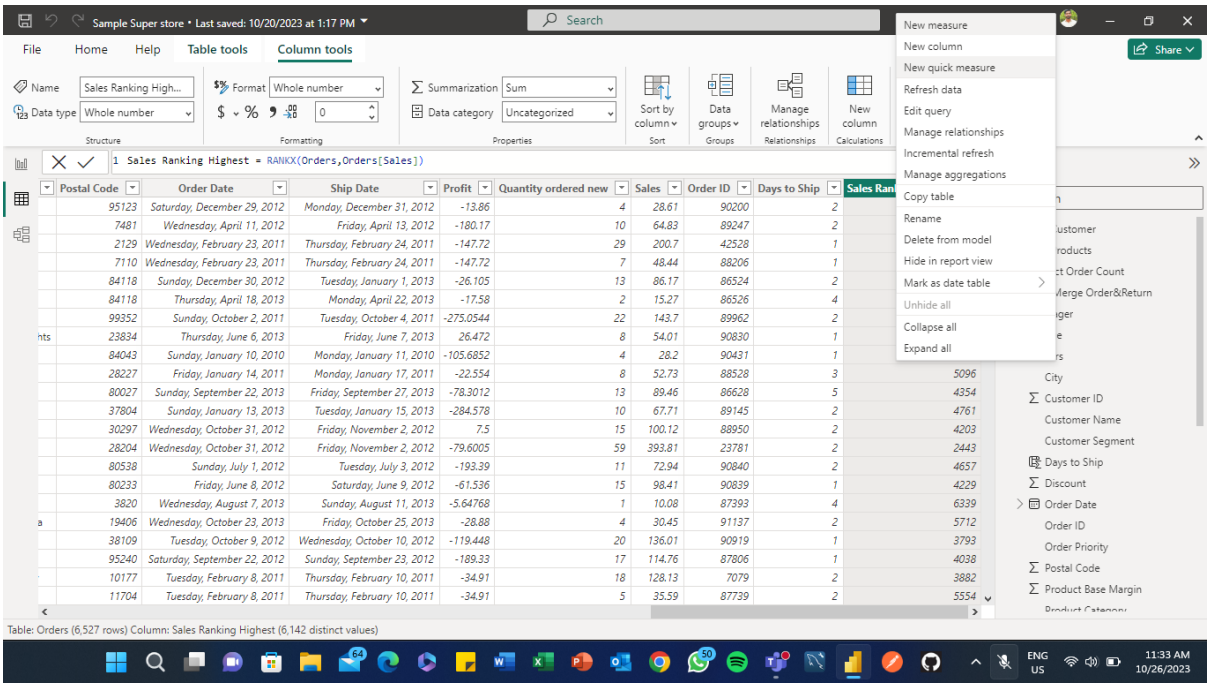



# Using RANKX Function

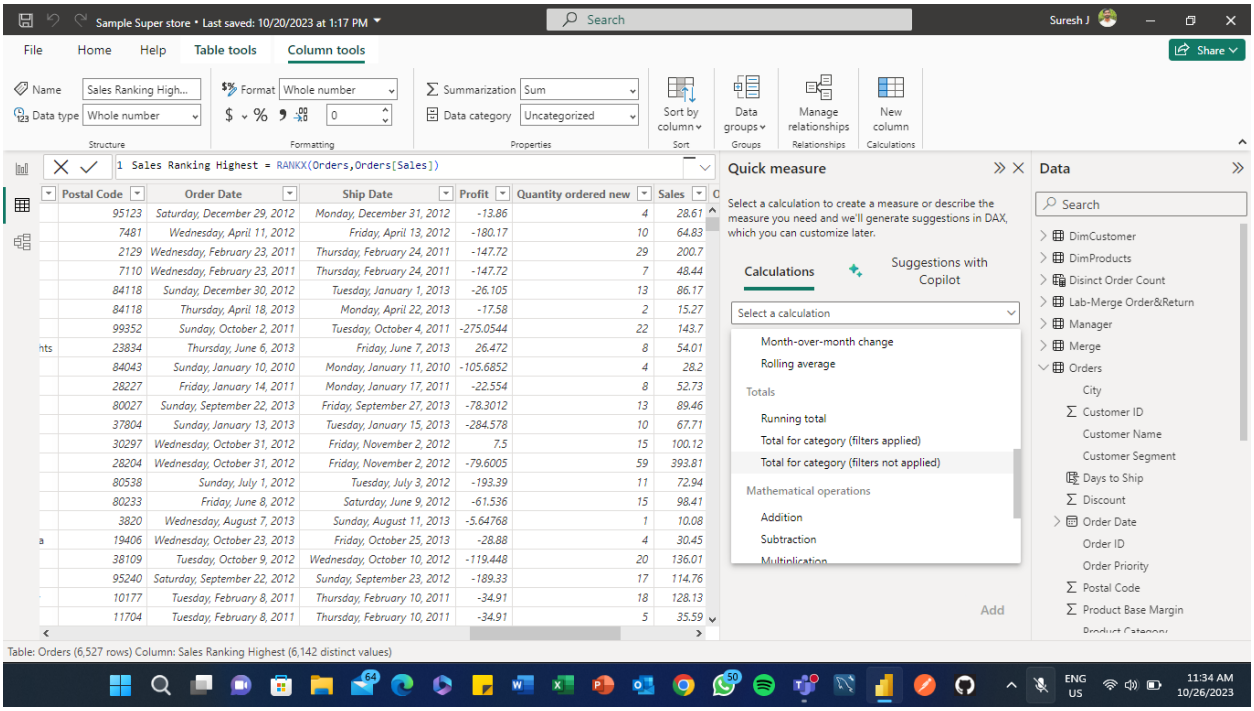


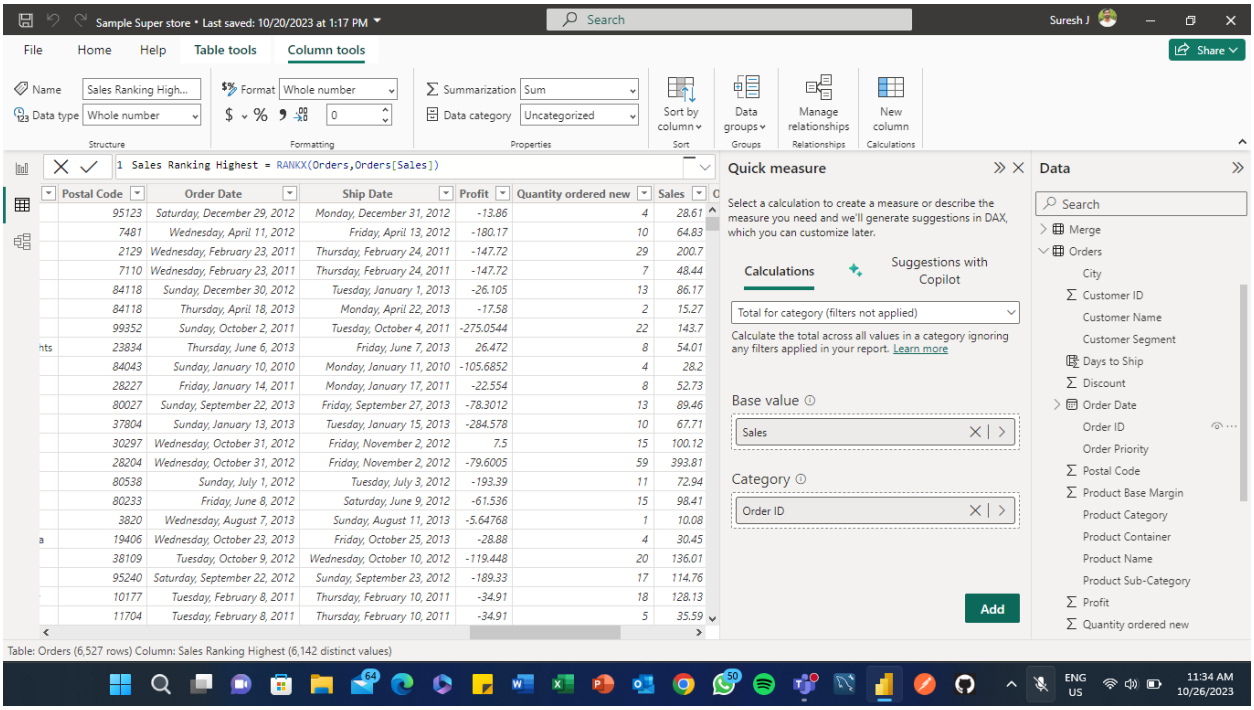

| Postal Code | Order Date | Ship Date | Profit | Quantity ordered new | Sales | Order ID | Days to Ship | Sales Ranking Highest |
|---|---|---|---|---|---|---|---|---|
| 95123 | Saturday, December 29, 2012 | Monday, December 31, 2012 | -13.86 | 4 | 28.61 | 90200 | 2 | 5774 |
| 7481 | Wednesday, April 11, 2012 | Friday, April 13, 2012 | -180.17 | 10 | 64.83 | 89247 | 2 | 4832 |
| 2129 | Wednesday, February 23, 2011 | Thursday, February 24, 2011 | -147.72 | 29 | 200.7 | 42528 | 1 | 3280 |
| 7110 | Wednesday, February 23, 2011 | Thursday, February 24, 2011 | -147.72 | 7 | 48.44 | 88206 | 1 | 5189 |
| 84118 | Sunday, December 30, 2012 | Tuesday, January 1, 2013 | -26.105 | 13 | 86.17 | 86524 | 2 | 4413 |
| 84118 | Thursday, April 18, 2013 | Monday, April 22, 2013 | -17.58 | 2 | 15.27 | 86526 | 4 | 6179 |
| 99352 | Sunday, October 2, 2011 | Tuesday, October 4, 2011 | -275.0544 | 22 | 143.7 | 89962 | 2 | 3726 |
| 23834 | Thursday, June 6, 2013 | Friday, June 7, 2013 | 26.472 | 8 | 54.01 | 90830 | 1 | 5068 |
| 84043 | Sunday, January 10, 2010 | Monday, January 11, 2010 | -105.6852 | 4 | 28.2 | 90431 | 1 | 5787 |
| 28227 | Friday, January 14, 2011 | Monday, January 17, 2011 | -22.554 | 8 | 52.73 | 88528 | 3 | 5096 |
| 80027 | Sunday, September 22, 2013 | Friday, September 27, 2013 | -78.3012 | 13 | 89.46 | 86628 | 5 | 4354 |
| 37804 | Sunday, January 13, 2013 | Tuesday, January 15, 2013 | -284.578 | 10 | 67.71 | 89145 | 2 | 4761 |
| 30297 | Wednesday, October 31, 2012 | Friday, November 2, 2012 | 7.5 | 15 | 100.12 | 88950 | 2 | 4203 |
| 28204 | Wednesday, October 31, 2012 | Friday, November 2, 2012 | -79.6005 | 59 | 393.81 | 23781 | 2 | 2443 |
| 80538 | Sunday, July 1, 2012 | Tuesday, July 3, 2012 | -193.39 | 11 | 72.94 | 90840 | 2 | 4657 |
| 80233 | Friday, June 8, 2012 | Saturday, June 9, 2012 | -61.536 | 15 | 98.41 | 90839 | 1 | 4229 |
| 3820 | Wednesday, August 7, 2013 | Sunday, August 11, 2013 | -5.64768 | 1 | 10.08 | 87393 | 4 | 6339 |
| 19406 | Wednesday, October 23, 2013 | Friday, October 25, 2013 | -28.88 | 4 | 30.45 | 91137 | 2 | 5712 |
| 38109 | Tuesday, October 9, 2012 | Wednesday, October 10, 2012 | -119.448 | 20 | 136.01 | 90919 | 1 | 3793 |
| 95240 | Saturday, September 22, 2012 | Sunday, September 23, 2012 | -189.33 | 17 | 114.76 | 87806 | 1 | 4038 |
| 10177 | Tuesday, February 8, 2011 | Thursday, February 10, 2011 | -34.91 | 18 | 128.13 | 7079 | 2 | 3882 |
| 11704 | Tuesday, February 8, 2011 | Thursday, February 10, 2011 | -34.91 | 5 | 35.59 | 87739 | 2 | 5554 |

# Quick Measure

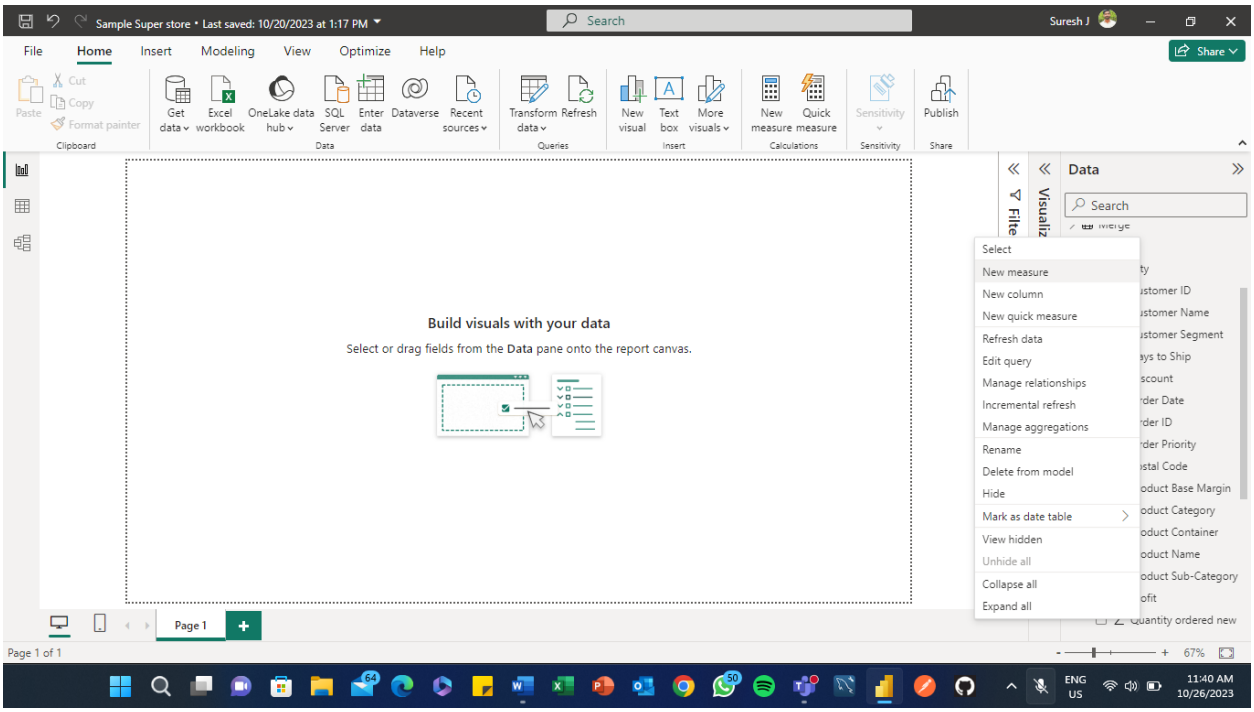


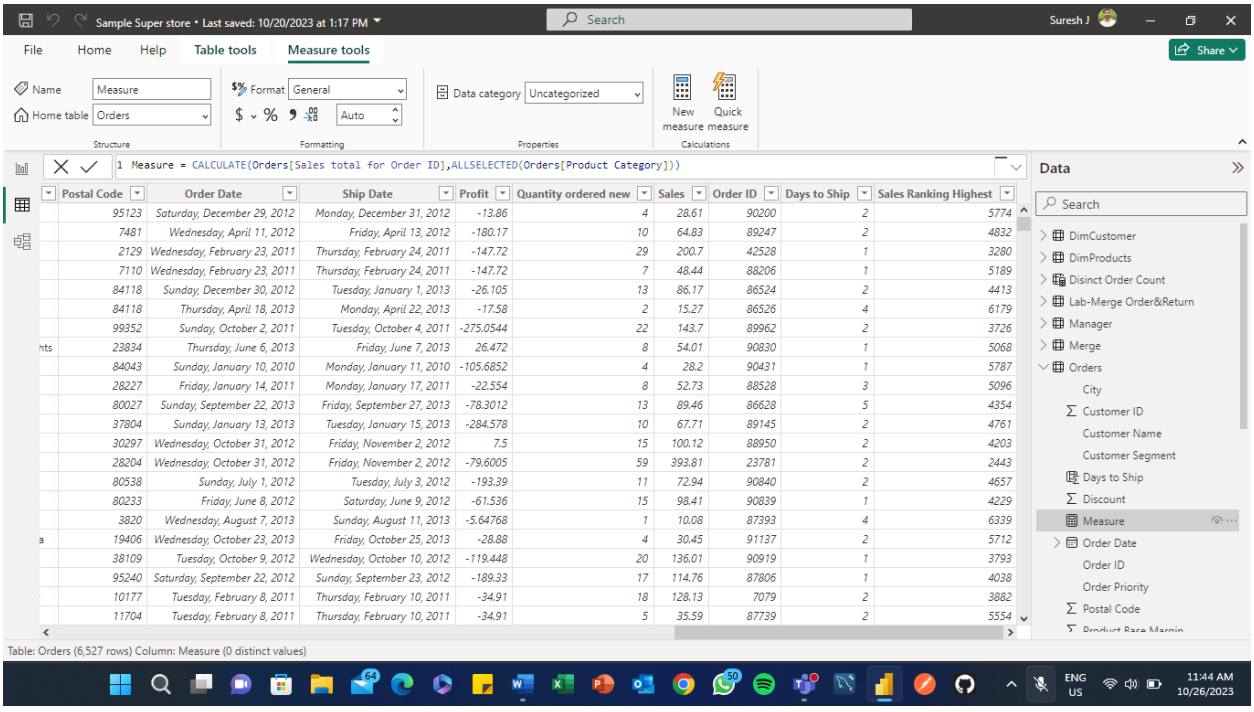

| Postal Code | Order Date | Ship Date | Profit | Quantity ordered new | Sales | Order ID | Days to Ship | Sales Ran |
|---|---|---|---|---|---|---|---|---|
| 95123 | Saturday, December 29, 2012 | Monday, December 31, 2012 | -13.86 | 4 | 28.61 | 90200 | 2 | |
| 7481 | Wednesday, April 11, 2012 | Friday, April 13, 2012 | -180.17 | 10 | 64.83 | 89247 | 2 | |
| 2129 | Wednesday, February 23, 2011 | Thursday, February 24, 2011 | -147.72 | 29 | 200.7 | 42528 | 1 | |
| 7110 | Wednesday, February 23, 2011 | Thursday, February 24, 2011 | -147.72 | 7 | 48.44 | 88206 | 1 | |
| 84118 | Sunday, December 30, 2012 | Tuesday, January 1, 2013 | -26.105 | 13 | 86.17 | 86524 | 2 | |
| 84118 | Thursday, April 18, 2013 | Monday, April 22, 2013 | -17.58 | 2 | 15.27 | 86526 | 4 | |
| 99352 | Sunday, October 2, 2011 | Tuesday, October 4, 2011 | -275.0544 | 22 | 143.7 | 89962 | 2 | |
| 23834 | Thursday, June 6, 2013 | Friday, June 7, 2013 | 26.472 | 8 | 54.01 | 90830 | 1 | |
| 84043 | Sunday, January 10, 2010 | Monday, January 11, 2010 | -105.6852 | 4 | 28.2 | 90431 | 1 | |
| 28227 | Friday, January 14, 2011 | Monday, January 17, 2011 | -22.554 | 8 | 52.73 | 88528 | 3 | 5096 |
| 80027 | Sunday, September 22, 2013 | Friday, September 27, 2013 | -78.3012 | 13 | 89.46 | 86628 | 5 | 4354 |
| 37804 | Sunday, January 13, 2013 | Tuesday, January 15, 2013 | -284.578 | 10 | 67.71 | 89145 | 2 | 4761 |
| 30297 | Wednesday, October 31, 2012 | Friday, November 2, 2012 | 7.5 | 15 | 100.12 | 88950 | 2 | 4203 |
| 28204 | Wednesday, October 31, 2012 | Friday, November 2, 2012 | -79.6005 | 59 | 393.81 | 23781 | 2 | 2443 |
| 80538 | Sunday, July 1, 2012 | Tuesday, July 3, 2012 | -193.39 | 11 | 72.94 | 90840 | 2 | 4657 |
| 80233 | Friday, June 8, 2012 | Saturday, June 9, 2012 | -61.536 | 15 | 98.41 | 90839 | 1 | 4229 |
| 3820 | Wednesday, August 7, 2013 | Sunday, August 11, 2013 | -5.64768 | 1 | 10.08 | 87393 | 4 | 6339 |
| 19406 | Wednesday, October 23, 2013 | Friday, October 25, 2013 | -28.88 | 4 | 30.45 | 91137 | 2 | 5712 |
| 38109 | Tuesday, October 9, 2012 | Wednesday, October 10, 2012 | -119.448 | 20 | 136.01 | 90919 | 1 | 3793 |
| 95240 | Saturday, September 22, 2012 | Sunday, September 23, 2012 | -189.33 | 17 | 114.76 | 87806 | 1 | 4038 |
| 10177 | Tuesday, February 8, 2011 | Thursday, February 10, 2011 | -34.91 | 18 | 128.13 | 7079 | 2 | 3882 |
| 11704 | Tuesday, February 8, 2011 | Thursday, February 10, 2011 | -34.91 | 5 | 35.59 | 87739 | 2 | 5554 |


Sample Super store • Last saved: 10/20/2023 at 1:17 PM
Search
Suresh J
File
Home
Help
Table tools
Column tools
Share
Name
Sales Ranking High...
Data type
Whole number
Format
Whole number
Summarization
Sum
Data category
Uncategorized
Sort by column
Data groups
Manage relationships
New column
Structure
Formatting
Properties
Sort
Groups
Relationships
Calculations
1 Sales Ranking Highest = RANKX(Orders,Orders[Sales])
Postal Code
Order Date
Ship Date
Profit
Quantity ordered new
Sales
95123 Saturday, December 29, 2012 Monday, December 31, 2012 -13.86 4 28.61
7481 Wednesday, April 11, 2012 Friday, April 13, 2012 -180.17 10 64.83
2129 Wednesday, February 23, 2011 Thursday, February 24, 2011 -147.72 29 200.7
7110 Wednesday, February 23, 2011 Thursday, February 24, 2011 -147.72 7 48.44
84118 Sunday, December 30, 2012 Tuesday, January 1, 2013 -26.105 13 86.17
84118 Thursday, April 18, 2013 Monday, April 22, 2013 -17.58 2 15.27
99352 Sunday, October 2, 2011 Tuesday, October 4, 2011 -275.0544 22 143.7
23834 Thursday, June 6, 2013 Friday, June 7, 2013 26.472 8 54.01
84043 Sunday, January 10, 2010 Monday, January 11, 2010 -105.6852 4 28.2
28227 Friday, January 14, 2011 Monday, January 17, 2011 -22.554 8 52.73
80027 Sunday, September 22, 2013 Friday, September 27, 2013 -78.3012 13 89.46
37804 Sunday, January 13, 2013 Tuesday, January 15, 2013 -284.578 10 67.71
30297 Wednesday, October 31, 2012 Friday, November 2, 2012 7.5 15 100.12
28204 Wednesday, October 31, 2012 Friday, November 2, 2012 -79.6005 59 393.81
80538 Sunday, July 1, 2012 Tuesday, July 3, 2012 -193.39 11 72.94
80233 Friday, June 8, 2012 Saturday, June 9, 2012 -61.536 15 98.41
3820 Wednesday, August 7, 2013 Sunday, August 11, 2013 -5.64768 1 10.08
19406 Wednesday, October 23, 2013 Friday, October 25, 2013 -28.88 4 30.45
38109 Tuesday, October 9, 2012 Wednesday, October 10, 2012 -119.448 20 136.01
95240 Saturday, September 22, 2012 Sunday, September 23, 2012 -189.33 17 114.76
10177 Tuesday, February 8, 2011 Thursday, February 10, 2011 -34.91 18 128.13
11704 Tuesday, February 8, 2011 Thursday, February 10, 2011 -34.91 5 35.59
Quick measure
Select a calculation to create a measure or describe the measure you need and we'll generate suggestions in DAX, which you can customize later.
Calculations
Suggestions with Copilot
Select a calculation
Month-over-month change
Rolling average
Totals
Running total
Total for category (filters applied)
Total for category (filters not applied)
Mathematical operations
Addition
Subtraction
Multiplication
Add
Data
Search
DimCustomer
DimProducts
Disinct Order Count
Lab-Merge Order&Return
Manager
Merge
Orders
City
Customer ID
Customer Name
Customer Segment
Days to Ship
Discount
Order Date
Order ID
Order Priority
Postal Code
Product Base Margin
Table: Orders (6,527 rows) Column: Sales Ranking Highest (6,142 distinct values)
ENG US
11:34 AM 10/26/2023


Sample Super store • Last saved: 10/20/2023 at 1:17 PM
Search
Suresh J
File
Home
Help
Table tools
Column tools
Share
Name
Sales Ranking High...
Data type
Whole number
Format
Whole number
Summarization
Sum
Data category
Uncategorized
Sort by column
Data groups
Manage relationships
New column
Structure
Formatting
Properties
Sort
Groups
Relationships
Calculations
1 Sales Ranking Highest = RANKX(Orders,Orders[Sales])
Postal Code
Order Date
Ship Date
Profit
Quantity ordered new
Sales
95123 Saturday, December 29, 2012 Monday, December 31, 2012 -13.86 4 28.61
7481 Wednesday, April 11, 2012 Friday, April 13, 2012 -180.17 10 64.83
2129 Wednesday, February 23, 2011 Thursday, February 24, 2011 -147.72 29 200.7
7110 Wednesday, February 23, 2011 Thursday, February 24, 2011 -147.72 7 48.44
84118 Sunday, December 30, 2012 Tuesday, January 1, 2013 -26.105 13 86.17
84118 Thursday, April 18, 2013 Monday, April 22, 2013 -17.58 2 15.27
99352 Sunday, October 2, 2011 Tuesday, October 4, 2011 -275.0544 22 143.7
23834 Thursday, June 6, 2013 Friday, June 7, 2013 26.472 8 54.01
84043 Sunday, January 10, 2010 Monday, January 11, 2010 -105.6852 4 28.2
28227 Friday, January 14, 2011 Monday, January 17, 2011 -22.554 8 52.73
80027 Sunday, September 22, 2013 Friday, September 27, 2013 -78.3012 13 89.46
37804 Sunday, January 13, 2013 Tuesday, January 15, 2013 -284.578 10 67.71
30297 Wednesday, October 31, 2012 Friday, November 2, 2012 7.5 15 100.12
28204 Wednesday, October 31, 2012 Friday, November 2, 2012 -79.6005 59 393.81
80538 Sunday, July 1, 2012 Tuesday, July 3, 2012 -193.39 11 72.94
80233 Friday, June 8, 2012 Saturday, June 9, 2012 -61.536 15 98.41
3820 Wednesday, August 7, 2013 Sunday, August 11, 2013 -5.64768 1 10.08
19406 Wednesday, October 23, 2013 Friday, October 25, 2013 -28.88 4 30.45
38109 Tuesday, October 9, 2012 Wednesday, October 10, 2012 -119.448 20 136.01
95240 Saturday, September 22, 2012 Sunday, September 23, 2012 -189.33 17 114.76
10177 Tuesday, February 8, 2011 Thursday, February 10, 2011 -34.91 18 128.13
11704 Tuesday, February 8, 2011 Thursday, February 10, 2011 -34.91 5 35.59
Quick measure
Select a calculation to create a measure or describe the measure you need and we'll generate suggestions in DAX, which you can customize later.
Calculations
Suggestions with Copilot
Total for category (filters not applied)
Calculate the total across all values in a category ignoring any filters applied in your report. Learn more
Base value
Sales
Category
Order ID
Add
Data
Search
Merge
Orders
City
Customer ID
Customer Name
Customer Segment
Days to Ship
Discount
Order Date
Order ID
Order Priority
Postal Code
Product Base Margin
Product Category
Product Container
Product Name
Product Sub-Category
Profit
Quantity ordered new
Table: Orders (6,527 rows) Column: Sales Ranking Highest (6,142 distinct values)
ENG US
11:34 AM 10/26/2023

# Measure


Sample Super store • Last saved: 10/20/2023 at 1:17 PM
Search
Suresh J
File
Home
Insert
Modeling
View
Optimize
Help
Share
Build visuals with your data
Select or drag fields from the Data pane onto the report canvas.
Data
Search
Select
New measure
New column
New quick measure
Refresh data
Edit query
Manage relationships
Incremental refresh
Manage aggregations
Rename
Delete from model
Hide
Mark as date table
View hidden
Unhide all
Collapse all
Expand all
Page 1
Page 1 of 1
67%
ENG
US
11:40 AM
10/26/2023


Sample Super store • Last saved: 10/20/2023 at 1:17 PM
Search
Suresh J
File
Home
Help
Table tools
Measure tools
Share
Name
Measure
Home table
Orders
Structure
Format
General
Auto
Formatting
Data category
Uncategorized
Properties
New measure
Quick measure
Calculations
1 Measure = CALCULATE(Orders[Sales total for Order ID],ALLSELECTED(Orders[Product Category]))
Postal Code
Order Date
Ship Date
Profit
Quantity ordered new
Sales
Order ID
Days to Ship
Sales Ranking Highest
95123 Saturday, December 29, 2012 Monday, December 31, 2012 -13.86 4 28.61 90200 2 5774
7481 Wednesday, April 11, 2012 Friday, April 13, 2012 -180.17 10 64.83 89247 2 4832
2129 Wednesday, February 23, 2011 Thursday, February 24, 2011 -147.72 29 200.7 42528 1 3280
7110 Wednesday, February 23, 2011 Thursday, February 24, 2011 -147.72 7 48.44 88206 1 5189
84118 Sunday, December 30, 2012 Tuesday, January 1, 2013 -26.105 13 86.17 86524 2 4413
84118 Thursday, April 18, 2013 Monday, April 22, 2013 -17.58 2 15.27 86526 4 6179
99352 Sunday, October 2, 2011 Tuesday, October 4, 2011 -275.0544 22 143.7 89962 2 3726
23834 Thursday, June 6, 2013 Friday, June 7, 2013 26.472 8 54.01 90830 1 5068
84043 Sunday, January 10, 2010 Monday, January 11, 2010 -105.6852 4 28.2 90431 1 5787
28227 Friday, January 14, 2011 Monday, January 17, 2011 -22.554 8 52.73 88528 3 5096
80027 Sunday, September 22, 2013 Friday, September 27, 2013 -78.3012 13 89.46 86628 5 4354
37804 Sunday, January 13, 2013 Tuesday, January 15, 2013 -284.578 10 67.71 89145 2 4761
30297 Wednesday, October 31, 2012 Friday, November 2, 2012 7.5 15 100.12 88950 2 4203
28204 Wednesday, October 31, 2012 Friday, November 2, 2012 -79.6005 59 393.81 23781 2 2443
80538 Sunday, July 1, 2012 Tuesday, July 3, 2012 -193.39 11 72.94 90840 2 4657
80233 Friday, June 8, 2012 Saturday, June 9, 2012 -61.536 15 98.41 90839 1 4229
3820 Wednesday, August 7, 2013 Sunday, August 11, 2013 -5.64768 1 10.08 87393 4 6339
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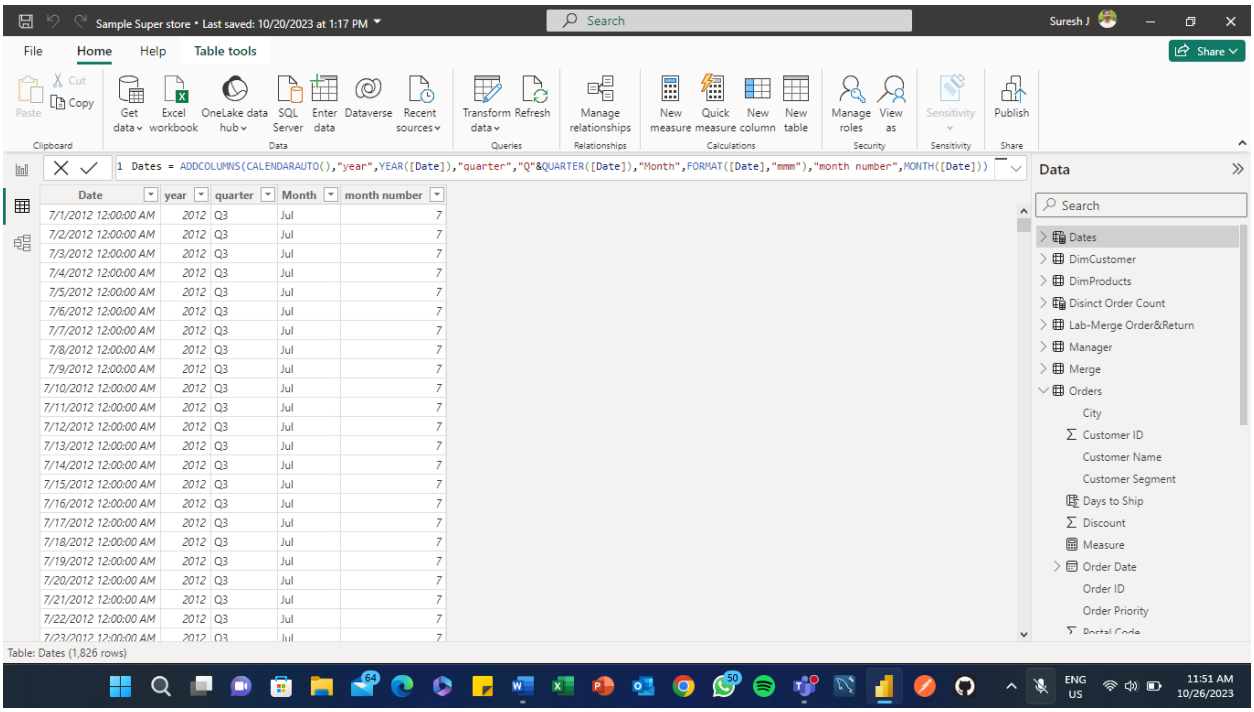
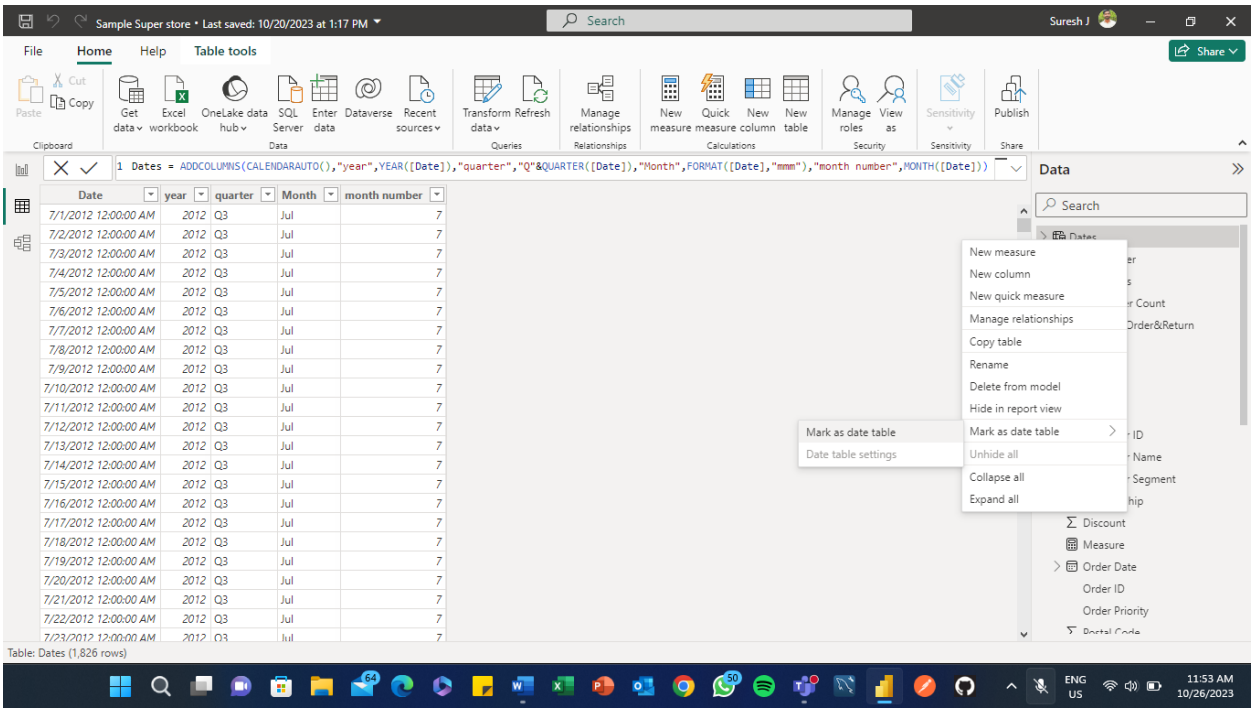
38109 Tuesday, October 9, 2012 Wednesday, October 10, 2012 -119.448 20 136.01 90919 1 3793
95240 Saturday, September 22, 2012 Sunday, September 23, 2012 -189.33 17 114.76 87806 1 4038
10177 Tuesday, February 8, 2011 Thursday, February 10, 2011 -34.91 18 128.13 7079 2 3882
11704 Tuesday, February 8, 2011 Thursday, February 10, 2011 -34.91 5 35.59 87739 2 5554
Table: Orders (6,527 rows) Column: Measure (0 distinct values)
Data
Search
DimCustomer
DimProducts
Disinct Order Count
Lab-Merge Order&Return
Manager
Merge
Orders
City
Customer ID
Customer Name
Customer Segment
Days to Ship
Discount
Measure
Order Date
Order ID
Order Priority
Postal Code
ENG
US
11:44 AM
10/26/2023

# Creating Date Table

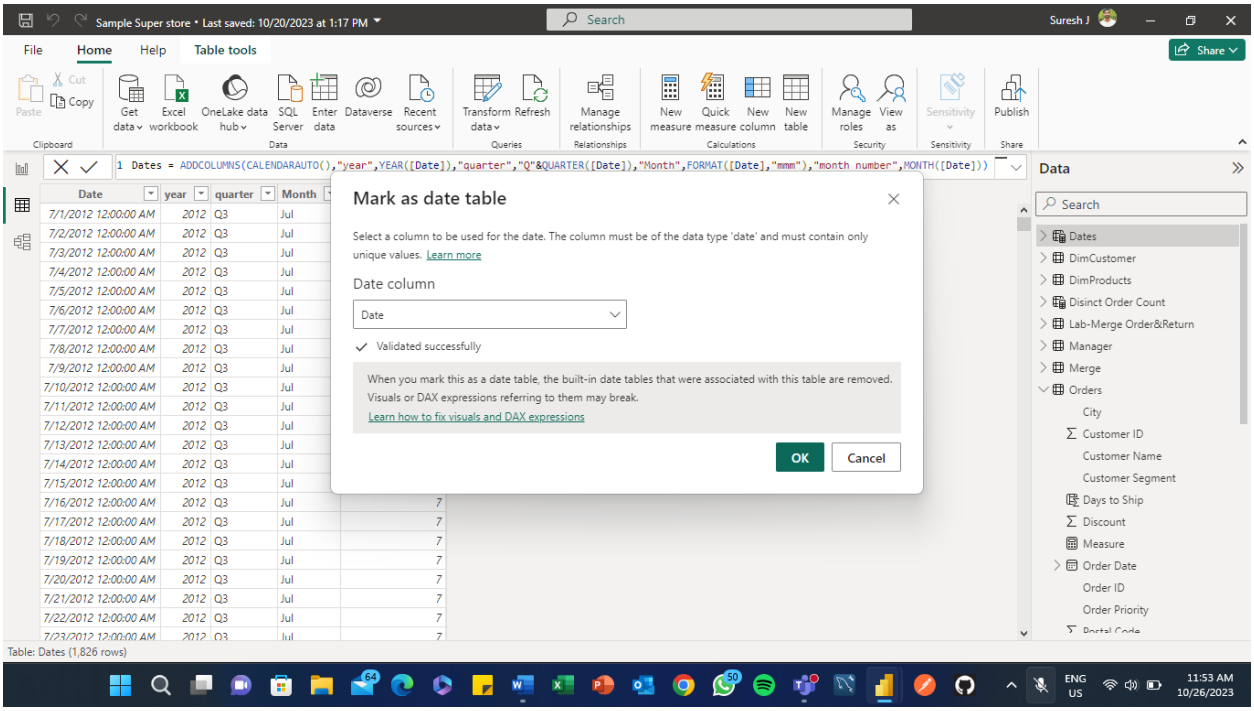


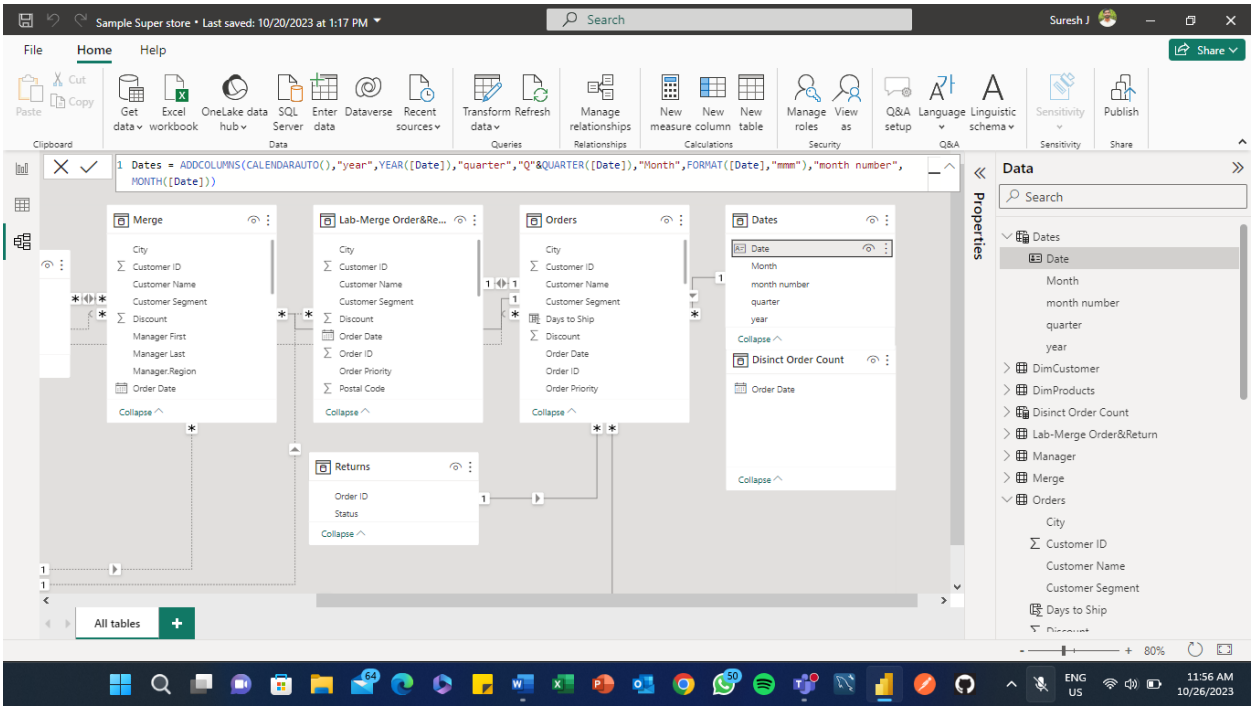

| Date | year | quarter | Month | month number |
|---|---|---|---|---|
| 7/1/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/2/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/3/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/4/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/5/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/6/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/7/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/8/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/9/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/10/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/11/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/12/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/13/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/14/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/15/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/16/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/17/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/18/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/19/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/20/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/21/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/22/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/23/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |

# Marked as Date Table to Date

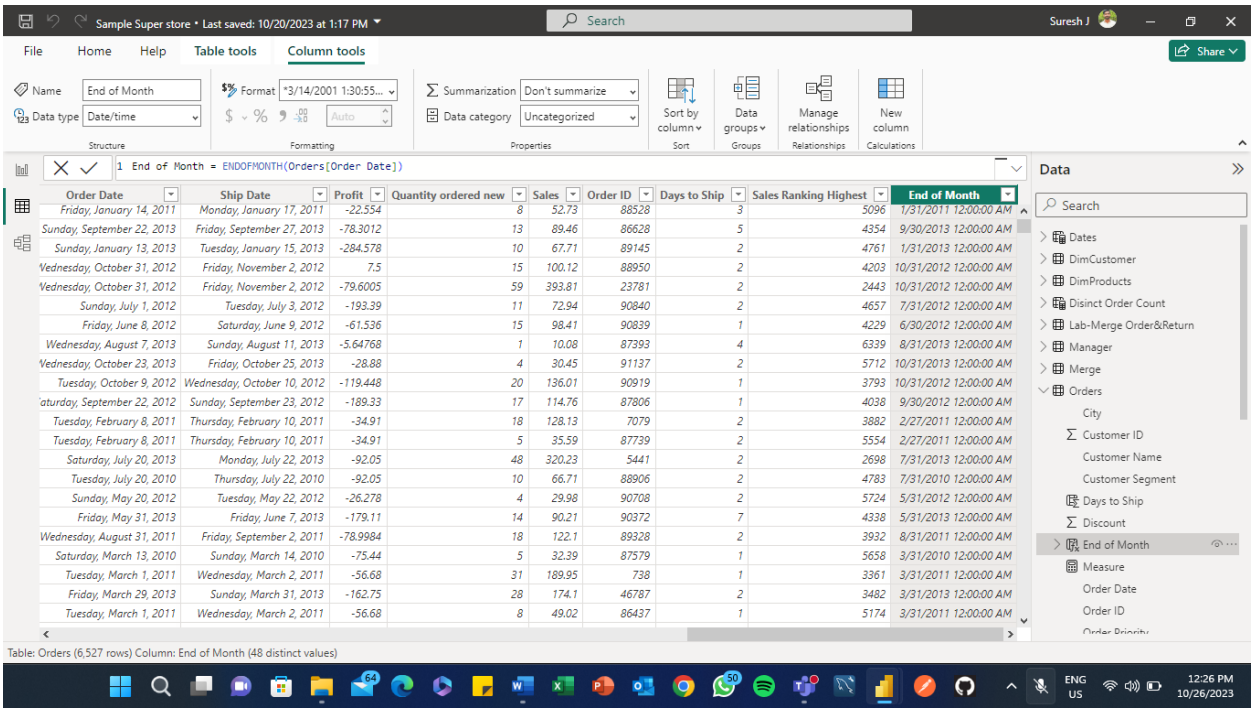



| Date | year | quarter | Month | month number |
|---|---|---|---|---|
| 7/1/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/2/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/3/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/4/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/5/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/6/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/7/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/8/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/9/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/10/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/11/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/12/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/13/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/14/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/15/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/16/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/17/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/18/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/19/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/20/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/21/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/22/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |
| 7/23/2012 12:00:00 AM | 2012 | Q3 | Jul | 7 |

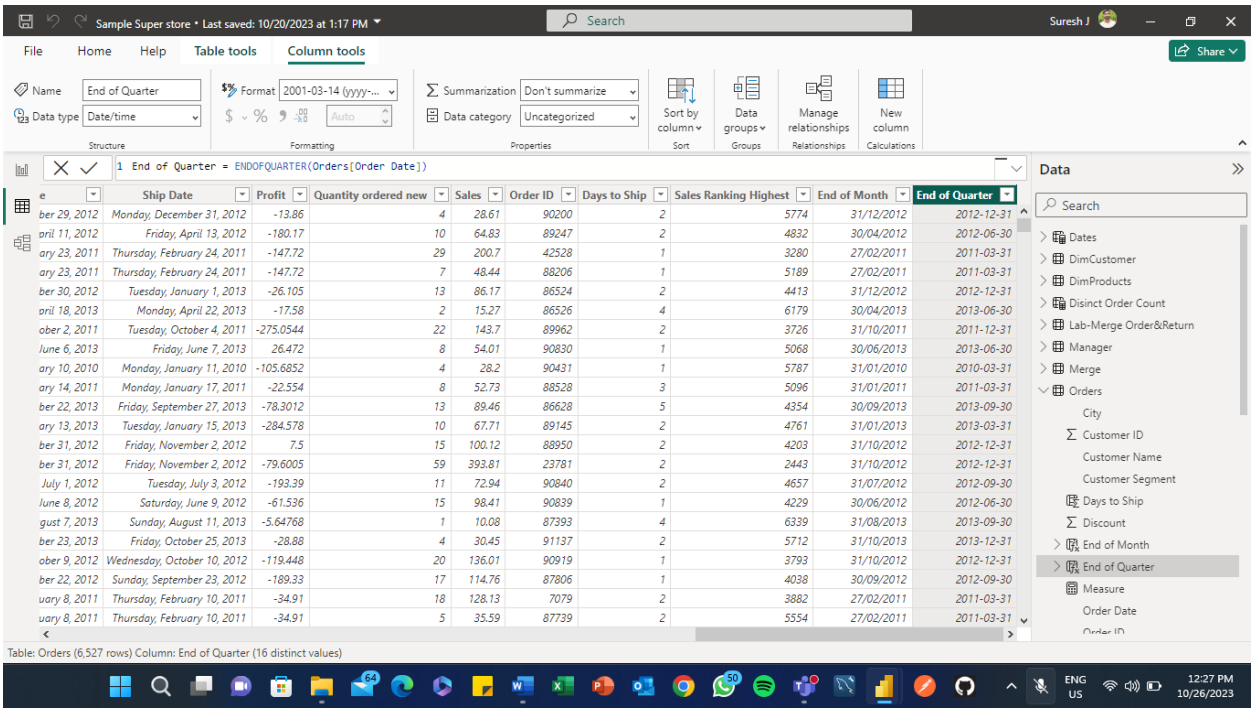

Sample Super store • Last saved: 10/20/2023 at 1:17 PM
Search
Suresh J
File
Home
Help
Table tools
Share
Mark as date table
Select a column to be used for the date. The column must be of the data type 'date' and must contain only unique values. Learn more
Date column
Date
Validated successfully
When you mark this as a date table, the built-in date tables that were associated with this table are removed. Visuals or DAX expressions referring to them may break.
Learn how to fix visuals and DAX expressions
OK
Cancel
Data
Dates
DimCustomer
DimProducts
Disinct Order Count
Lab-Merge Order&Return
Manager
Merge
Orders
Table: Dates (1,826 rows)
11:53 AM
10/26/2023


Sample Super store • Last saved: 10/20/2023 at 1:17 PM
Search
Suresh J
File
Home
Help
Share
Merge
Lab-Merge Order&Re...
Orders
Dates
Disinct Order Count
Returns
All tables
Properties
Data
Search
Dates
Date
Month
month number
quarter
year
DimCustomer
DimProducts
Disinct Order Count
Lab-Merge Order&Return
Manager
Merge
Orders
City
Customer ID
Customer Name
Customer Segment
Days to Ship
11:56 AM
10/26/2023

# Creating End of Month Column




# Creating End of Quarter Column



# Using the Power BI File of Retail Analysis Sample

# KPI Visualization